

**University of Bahrain**  
**College of IT**  
**Department of CE**

**PC Troubleshooting (ITCE212)**  
**Academic Year: 2006-2007**  
**Semester: Summer**  
**Final Exam – Sec4**

**B**

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**Student Name:**

**Student ID:**

**Section:**

Question	Points Attached
1 (20 Marks)	
2 (20 Marks)	
3 (20 Marks)	
4 (20 Marks)	
5 (20 Marks)	
Total (100 Marks)	

Q1) Circle the correct answer:

(20 Marks)

1. Which technique is used to make the microprocessor cycles run faster than the system?

- a. Dual core.
- b. Multiplier.
- c. EDB extension.
- d. Internal cache extension.

2. If a processor has a 30 bit address bus, that means it can address up to:

- a. One Kilobyte.
- b. One Megabyte.
- c. One Gigabyte.
- d. One Terabyte
- e. None of the above

3. Zero Insertion force (ZIF) socket is used for which processor package type:
- DIP Package.
  - Single edge cartridge package.
  - Pin Grid Array Package.
  - None of above.
- 4- Which bus carries information between processors and peripherals?
- Auto bus.
  - Data bus.
  - Address bus.
  - Terminal bus.
5. CPUs usually work on:
- 1 volt.
  - 12 volts.
  - 5 volts.
  - 15 volts.
6. What sort of connector does a typical network card have?
- DB-9
  - Mini-DIN
  - RJ-45
  - RJ-11
7. Modern keyboards connect to which of the following ports? (Select all that apply.)
- DIN
  - USB
  - Mini-DIN
  - FireWire
8. Which end of the USB cable plugs into the PC?
- A
  - Mini-A
  - B
  - Mini-B
9. A printer usually plugs into which of the following ports? (Select two.)
- DB-9
  - DB-25
  - Mini-DIN
  - USB
10. What do you plug into a three-row, 15-pin port?
- Joystick
  - Keyboard
  - Mouse
  - Monitor

Q2) Answer with T or F

(20 marks)

T or F	Sentence
	Intel Celeron is designed to target high end systems
	Motherboards that support more than four sticks of RAM may require buffered RAM to function properly.
	Intel Itanium II has L1 equal to 128kbyte
	The connector designed to connect your PC to a high-end audio system is called S/PDIF connector.
	Motherboard speed is always greater than CPU speed
	A working program should reside in RAM
	The connector that was designed to connect your PC to a high-end television set is called DVI connector
	DDR RAM is single-channel Memory
	The term for the delay in the RAM's response to a request from the MCC is called MMC gap.
	Testing RAM can be done using hardware device or software program

Q3) Answer the following:

(20 Marks)

The advantage of Intel Core Duo over the Pentium M?	
The advantage of 64 bit address bus over 32 bit	
The advantage of DDR2 over DDR SDRAM	
The advantage of P4 over Pentium III	
The advantage of processor with L1 and L2 cache over a processor of L1 cache	
The advantage of PIII over Pentium II	

Q4) Complete the following:

(20 marks)

- a- In Pentium 4, if the motherboard bus speed is equal to 133, the front side bus speed is equal to \_\_\_\_\_
- b- The DDR2 speed rating for 250 MHz core clock speed is equal to \_\_\_\_\_
- c- RDRAM is \_\_\_\_\_ than SDRAM
- d- SIMM stands for \_\_\_\_\_ Memory Module
- e- FPM DRAM stands for \_\_\_\_\_ page mode DRAM
- f- A system with address bus of 28 bits can address a maximum memory space of \_\_\_\_\_ Bytes
- g- DDR3 uses even less \_\_\_\_\_ than DDR2 and \_\_\_\_\_ the speed of the DRAM's I/O.
- h- Your motherboard should detect and automatically set up any DIMM or RIMM you install by querying \_\_\_\_\_
- i- RDRAM is short for \_\_\_\_\_ DRAM

Q5) Answer the following questions (20 Marks)

1- Mention 3 different packages types used in packaging CPUs

a-

b-

c-

2- If you have a motherboard with four RAM slots that doesn't seem to work. You have two RDRAM RIMMs installed, for a total of 1 GB of memory, but the system won't boot. What is likely to be the problem?

3- What is the amount of RAM needed for windows Vista for Reasonable Minimum performance, and Power User performance?

Types of users	Amount of RAM
Power User	
Solid Performance	

4- State two symptoms that indicate your PC need more RAM.

a-

b-

5- What is the term we used to indicate?

a- Memory latency \_\_\_\_\_

b- CPU speed \_\_\_\_\_

c- Memory size \_\_\_\_\_

